

Notice of Allowability

Application No.

10/071,815

Examiner

Diem K. Cao

Applicant(s)

JOHNSON, PETER

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 10/11/2005.
2. ☒ The allowed claim(s) is/are 1, 4, 10, 12-25, now renumbered 1-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Alfred Kozak (Reg. 24,265) on May 9 2006.

2. The application has been amended as follows:

See attachment.

3. The following is an examiner's statement of reasons for allowance:

As to claims 1, 4, 10, and 12-25, the prior art of record does not teach or render obvious the limitations recited in claims 1, 4 and 10, when taken in the context of the claims as a whole, specific to providing a bridge to allow Java application to access an OLE DB database utilizing a JDBC API, wherein the bridge comprising a series of Java classes that implement the JDBC API, and a series of C++ classes corresponding to the Java classes, connecting the Java classes to the C++ classes to enable utilization of the OLE DB data provider.

Moreover, evidence for modifying the prior art teachings by one of ordinary skill level in the art was not uncovered so as to result in the invention as recited in claims 1, 4 and 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K. Cao whose telephone number is (571) 272-3760. The examiner can normally be reached on Monday - Friday, 5:30AM - 2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571) 272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Diem Cao


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

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Claim 1 (Currently Amended) A method for enabling a Java application, that is a client of a JDBC driver, to ~~connect~~ access data from an object linking-embedding database (OLE DB) via utilization of a Java Database Connectivity (JDBC) interface, comprising the steps of:

(a) initiating a Java application to contact said Java Database Connectivity (JDBC) ~~Driver~~ driver;

(b) bridging, by said JDBC ~~Driver~~ driver, to an OLE DB data provider, to provide a JDBC interface between said JDBC ~~Driver~~ driver and said OLE DB database, wherein said bridging step includes the steps of:

(b1) providing a series of Java classes that implement said JDBC interface;

(b2) implementing a Datalink Library in C++ for said Java classes to act as an OLE DB client for said OLD DB data provider; and

(b3) connecting said Java classes to said OLE DB client to enable utilization of said OLE DB data provider.

Claim 2 Canceled.

Claim 3 Canceled.

Claim 4 (Currently Amended) A method for enabling a Java application acting as a JDBC Driver client to access an OLE DB database having OLE DB objects, by ~~the~~ utilization of

a standard Java Database Connectivity (JDBC) API interface ~~which follows the JDBC Standard~~, comprising the steps of:

- (a) establishing, for each interface in said JDBC API interface, a corresponding Java class ~~holding~~ including Java objects and a corresponding C++ class ~~holding~~ including C++ objects;
- (b) maintaining in each Java object of said Java class, a reference to its corresponding C++ object in said C++ class;
- (c) maintaining in each C++ object a reference to the OLE DB object which most closely matches the functionality of said JDBC API interface;
- (d) passing, by said C++ class object, a database query to said OLE DB database via an OLE DB data provider holding an OLE DB Command Object;
- (e) connecting to said OLE DB database to garner a response to said database query; and
- (f) returning said response to said Java application.

Claim 5 Canceled.

Claim 6 Canceled.

Claim 7 Canceled.

Claim 8 Canceled.

Claim 9 Canceled.

Claim 10 (Currently Amended) A system utilizing a Java JDBC API application specification which is the Java Java™ platform standard call level API for database access designated core JDBC 2.1 API by Sun Microsystems, and also utilizing an OLE DB API Specification which is a Microsoft statement for Microsoft Data Access Components of which OLE DB (Object Linking and Embedding Database) is one collection of COM objects that encapsulate database management system services for various servers and data providers and has four OLE DB objects which are DataSource, Session, Command, and Rowset, said system for enabling a client utilizing a Java JDBC API application to access an OLE DB database which is designed for communication with OLE DB-type interfaces comprising:

(a) JDBC Driver means that utilizes JDBC API Java standards and performs a bridge interface operation between a Java JDBC API application and an OLE DB data provider which implements said OLE DB API specification, wherein said JDBC Driver means includes:

(a1) a series of JDBC API interfaces wherein each said JDBC API interface contains a Java class holding including Java objects and a corresponding C++ class having C++ object;

(a2) means to maintain a reference between each java object and its corresponding C++ object;

(a3) means to maintain a reference between each C++ object and the particular OLE DB object which most closely matches the functionality of the JDBC API interface; and

(b) means to pass an OLE DB database query initiated by said Java JDBC API application as a client to a database organized for OLE DB API clients and receive a response to said OLE DB database query, wherein the response is in a format suitable for said Java JDBC API application to receive properly.

Claim 11 Canceled.

In claim 12, at line 1, replace "11" with -10--.